



Transportation Commission

December 17, 2014



Updates to Receive (Consent)

Agenda Item #2



Commission Updates

Agenda Item #3



Capital Bikeshare Expansion

Agenda Item #4

Capital Bikeshare - Background



- D.C. and Arlington launched in 2010 with 110 stations
- In October 2011, Council adopted program in Alexandria
- Alexandria launched in 2012 with 8 stations
- Alta Bicycle Share is the contractor hired by all participating jurisdictions to operate system

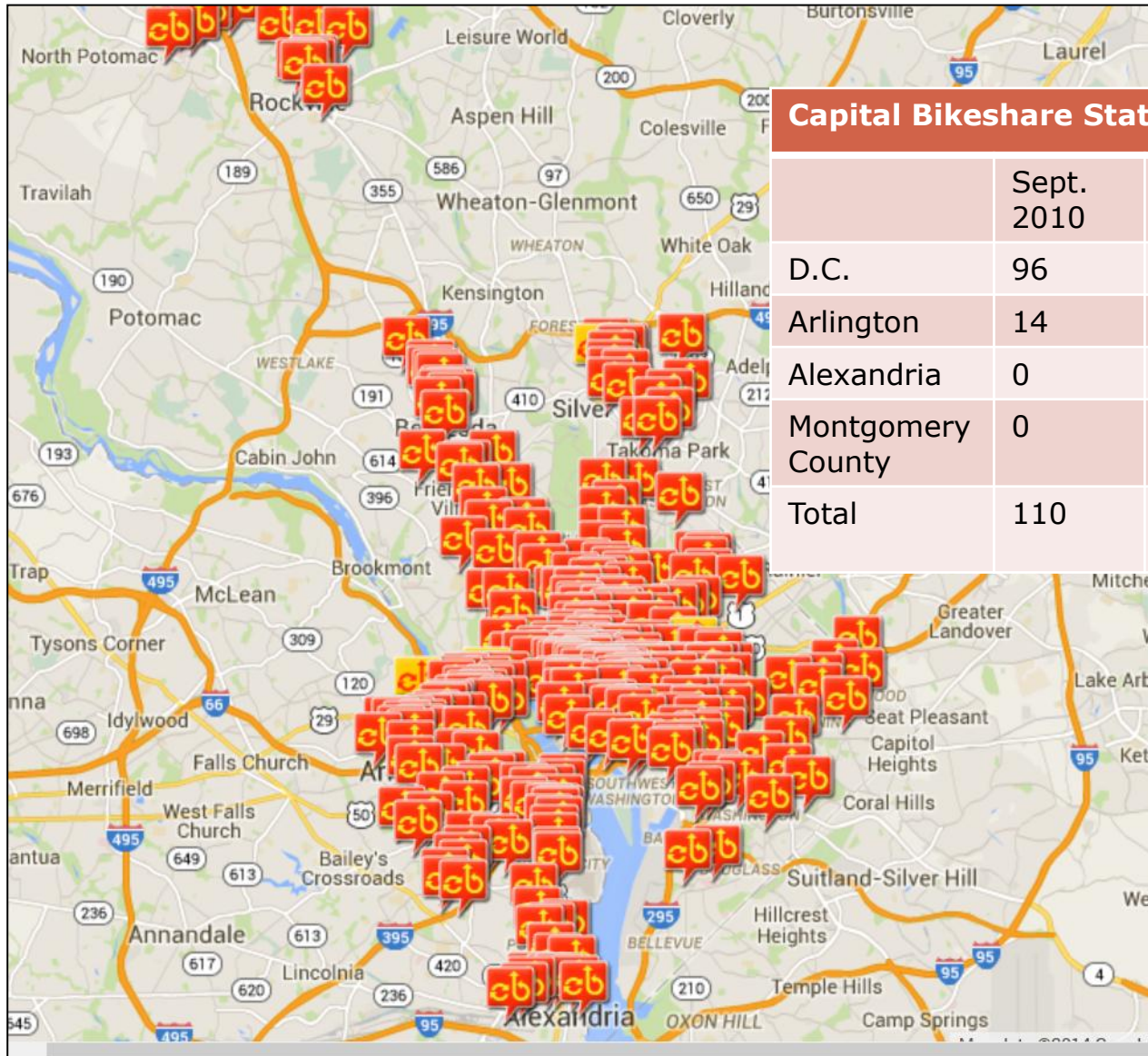
Consistent with City Plans



- Mayor and City Council Strategic Plan
- Complete Streets Policy
- Eco-City Alexandria
- 2008 Transportation Master Plan
- 2008 Pedestrian and Bicycle Mobility Plan
- Alexandria is a Silver Level Bicycle Friendly Community

Strategic Plan Goal 3: *"A multimodal transportation network that supports sustainable land use and provides internal mobility and regional connectivity for Alexandrians."*

Growth of Capital Bikeshare



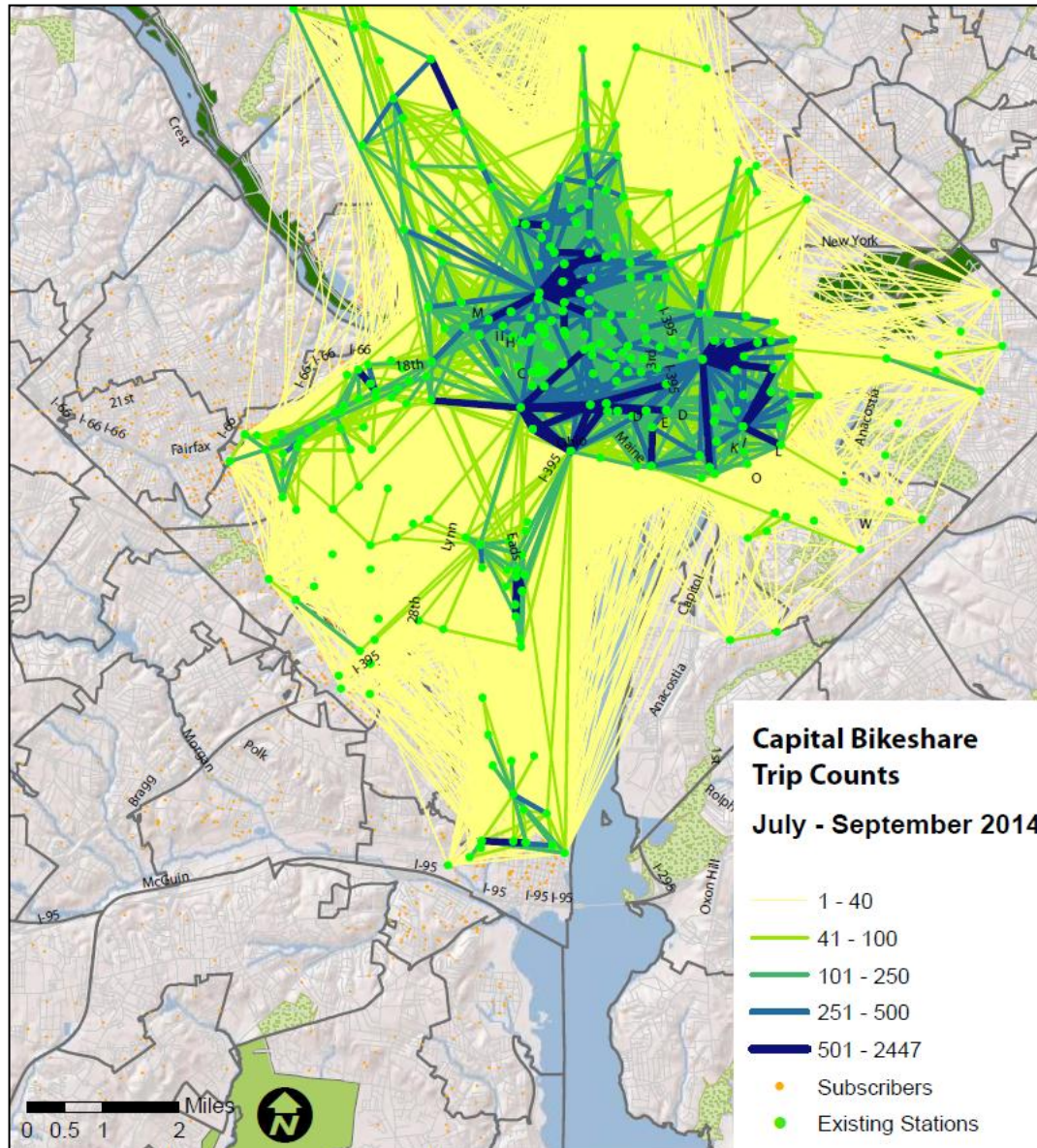
Capital Bikeshare Stations

	Sept. 2010	Sept. 2014
D.C.	96	202
Arlington	14	78
Alexandria	0	16
Montgomery County	0	51
Total	110	347

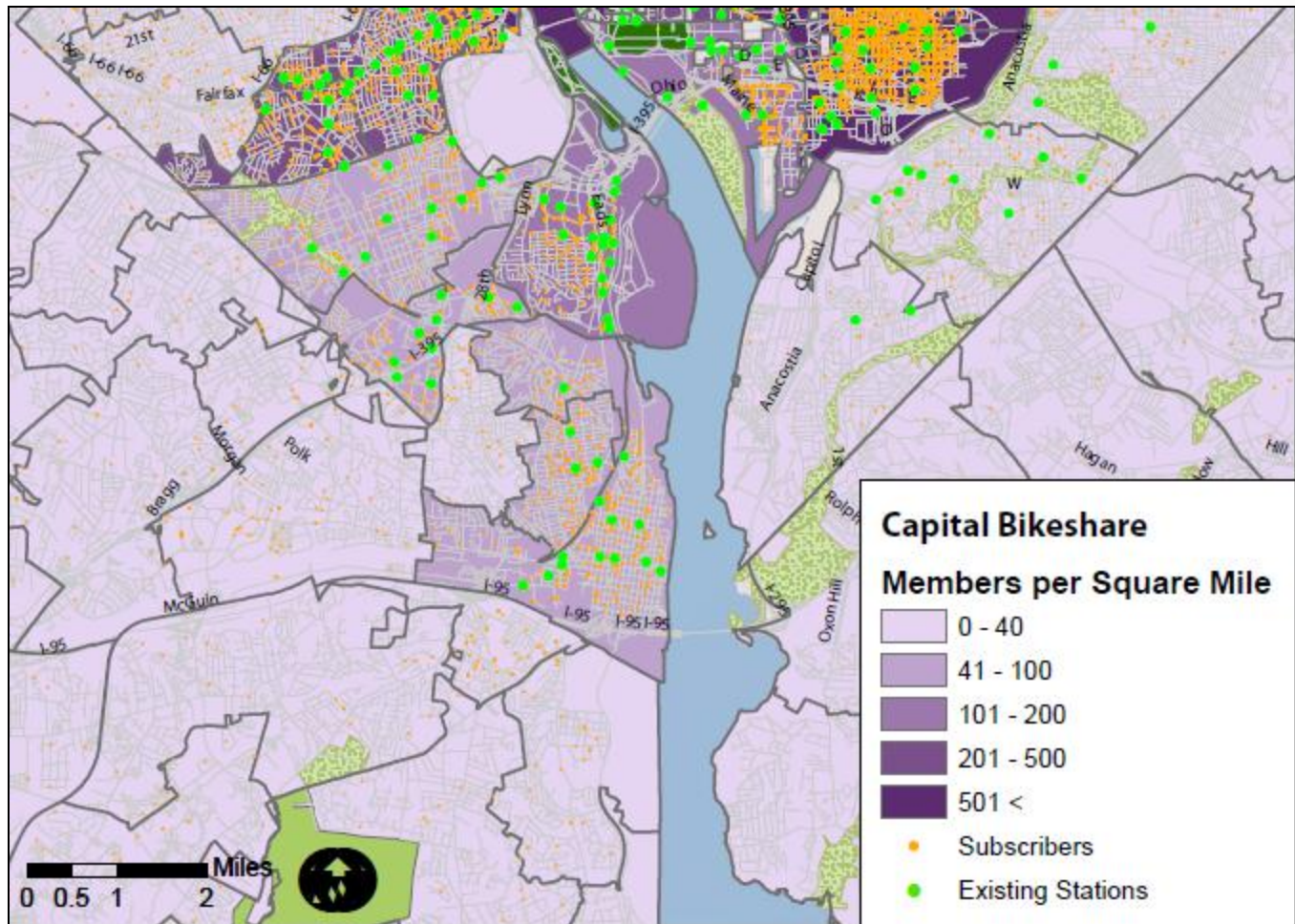
Capital Bikeshare in Alexandria

Fleet	
Stations	16
Bikes	128
Docks	250
% of regional fleet	4.44%
Members	
Annual, monthly and daily key	1,874
1-day members	5,658
3 day members	364
Trips	
Trips, starting in Alexandria	51,534
Miles, starting in Alexandria	131,739
Average trip length (miles)	2.56
Average trip duration (min)	23.18
C02 saved, trips starting in Alexandria (pounds)	89,582
Calories burned, trips starting in Alexandria	5,664,756
Reported crashes	0
Unrecovered thefts	0

Trips Between Stations



Members per Square Mile



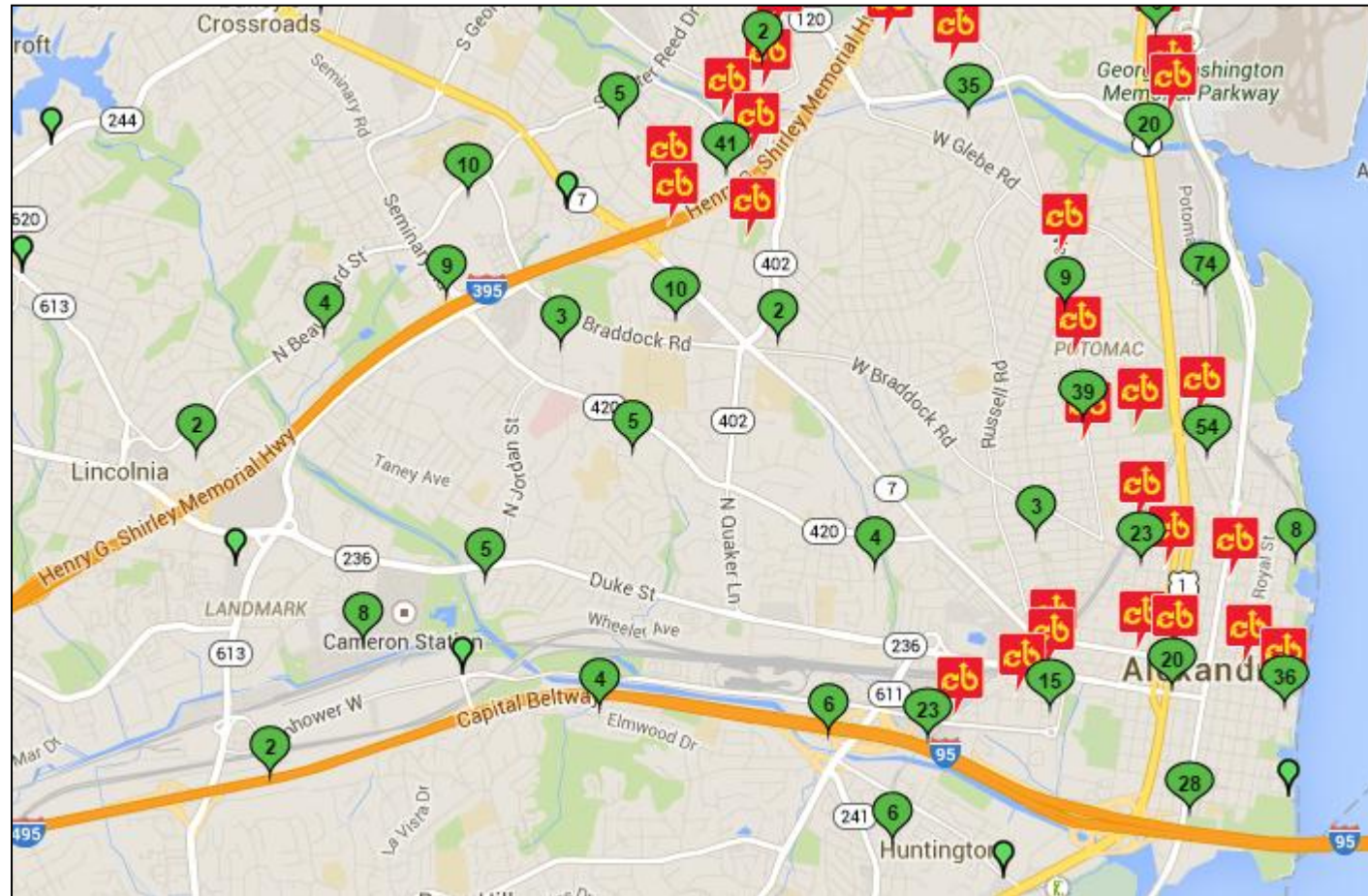
Expansion Considerations

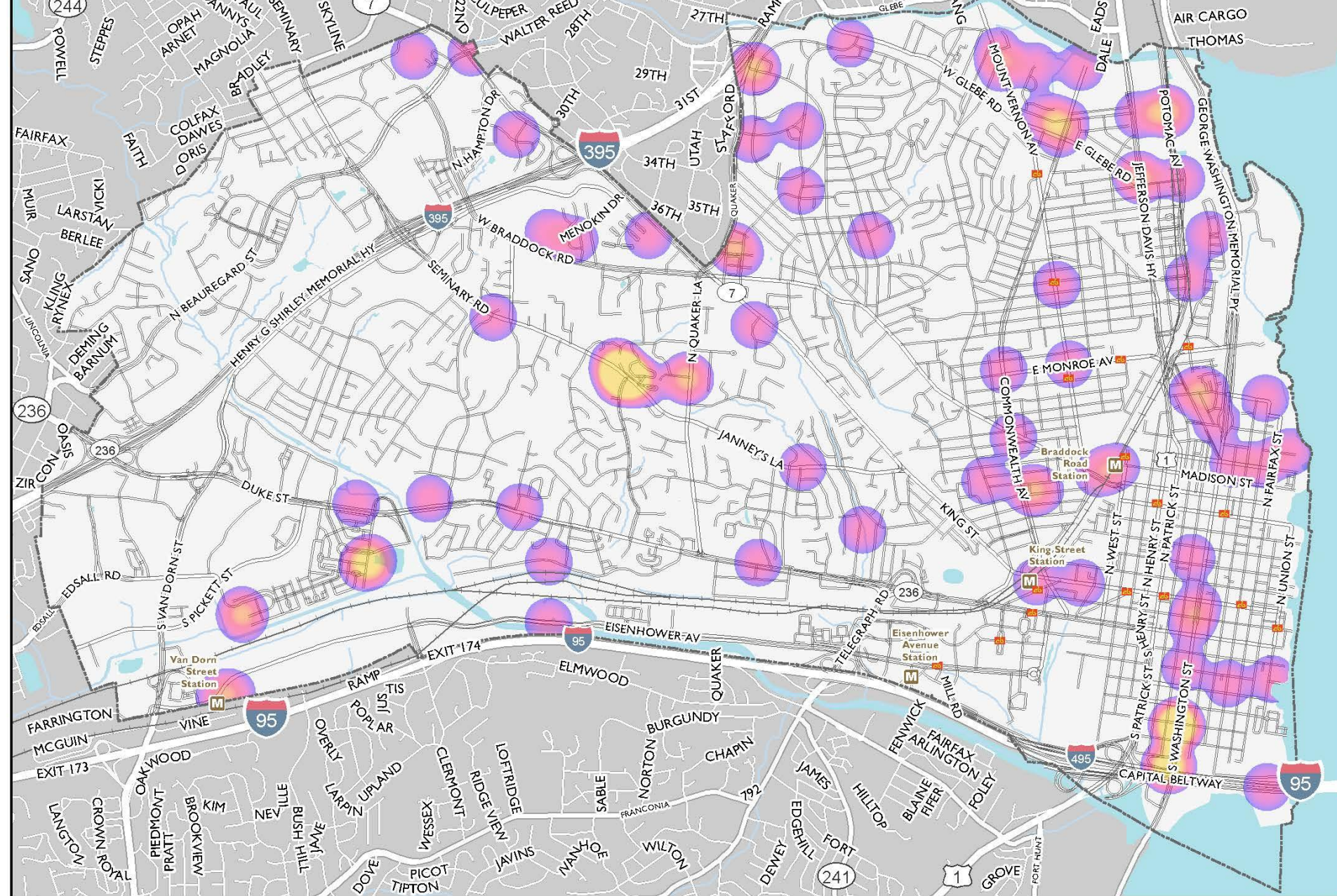
- Locations suggested by public and preferences on crowdsourcing maps
- Connectivity to transit
- Close to mixed-use activity centers
- Close to network of existing Capital Bikeshare stations (approximately ¼ mile)
- Technical considerations
 - direct sunlight
 - at least 11' X 32' space
 - sidewalk pedestrian clearance
 - flat ground
 - utility clearance

Civic Engagement

- Over 7 community meetings in 2013-2014
- Employer outreach
- Crowdsourcing maps
- Pedestrian and Bicycle Master Plan update online survey and crowdsourcing map

Expansion Considerations





City of Alexandria, Virginia

Department of Transportation and Environmental Services



Pedestrian and Bicycle Master Plan

Online Interactive Map Results - Suggested Bike Share Station Locations

Comment Density

High

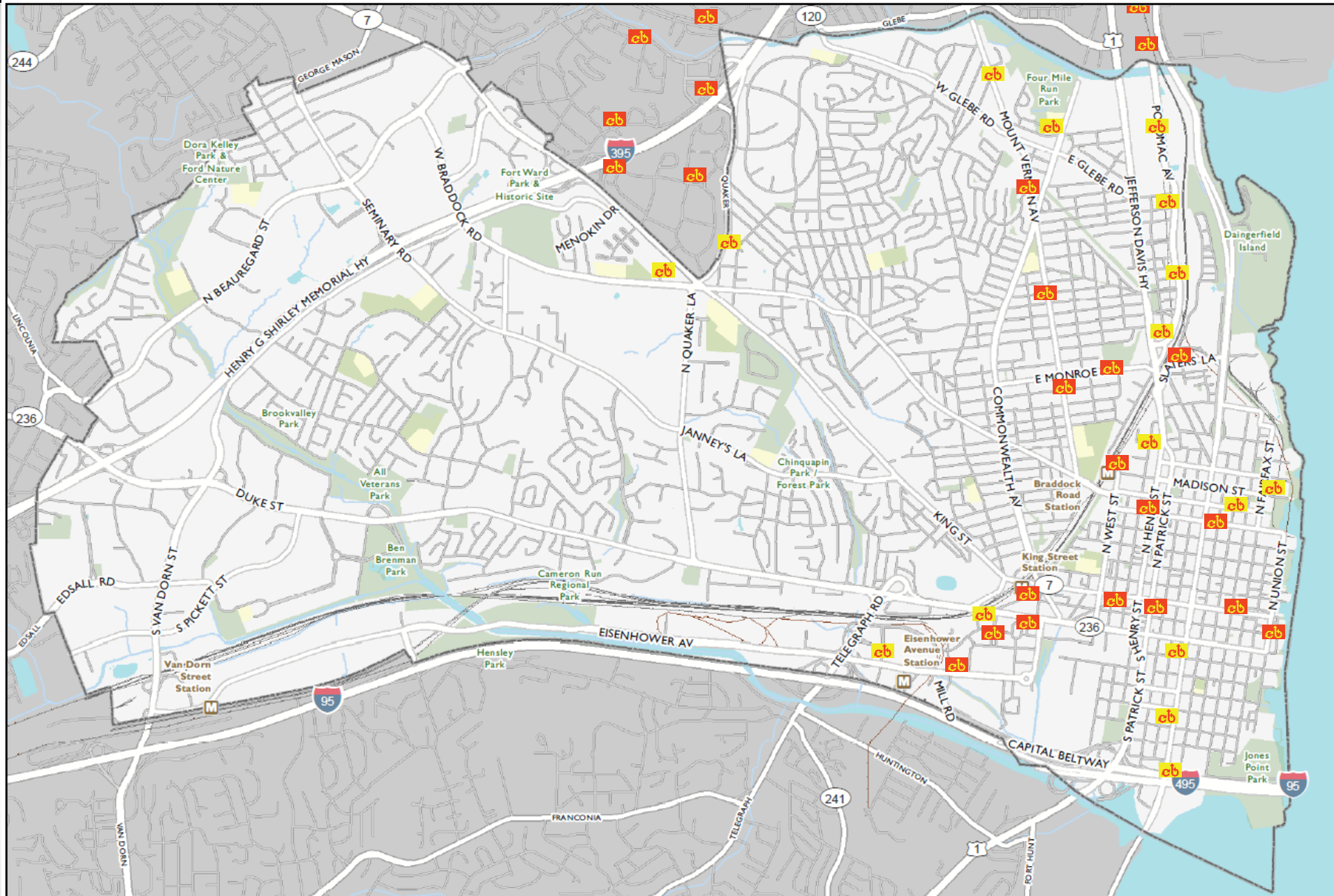
Low

Existing Station

Metro Station

City Boundary

Date: 11/24/2014



Alexandria Capital Bikeshare Expansion - DRAFT



Pedestrian and Bicycle Master Plan Update

Agenda Item #5

Project Background



- Comprehensive Transportation Master Plan (2008)
 - Pedestrian chapter
 - Bicycle chapter
- 2011 Complete Streets Policy
 - Provide safe transport for all users
 - Support walking and bicycling
- Capital Bikeshare
- New green sidewalk standards
- Various Approved Small Area Plans



Scope of Work

- Pedestrian and Bicycle Master Plan
 - Data Collection and Review
 - Existing Conditions
 - Civic Engagement
 - Identify Needs and Issues
 - Strategies
 - Pedestrian and Bicycle Network Development
 - Implementation
 - Transportation Master Plan Chapter Updates

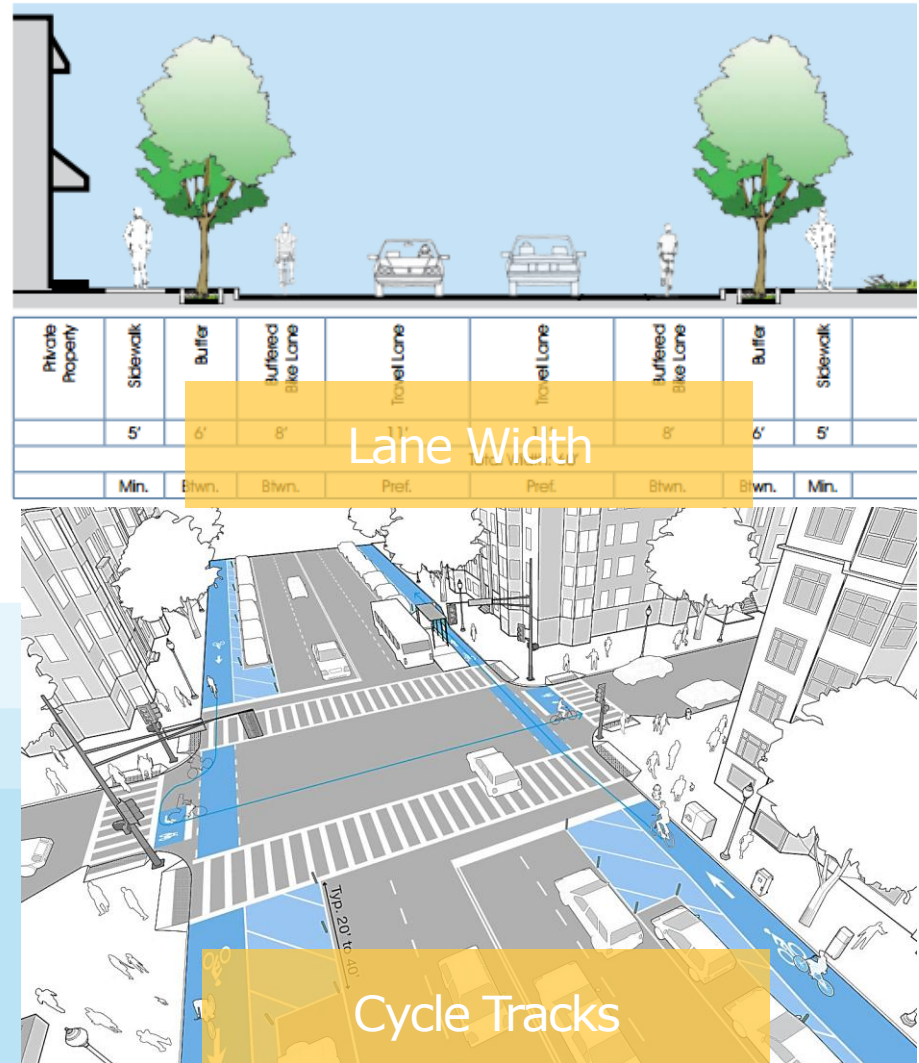


Scope of Work

- Complete Streets Design Guidelines
 - Guiding Principles (*start with 2011 CS Policy*)
 - Policy and Guidance Review
 - Best Practices Research
 - Stakeholder/Civic Engagement
 - Develop Recommendations
 - Negotiate Design Guidelines
 - Final Complete Streets Design Guidelines

COMMERCIAL STREET EXAMPLES

EXAMPLE COMMERCIAL TYPOLOGY CROSS SECTION: 60' ROW



Civic Engagement to Date

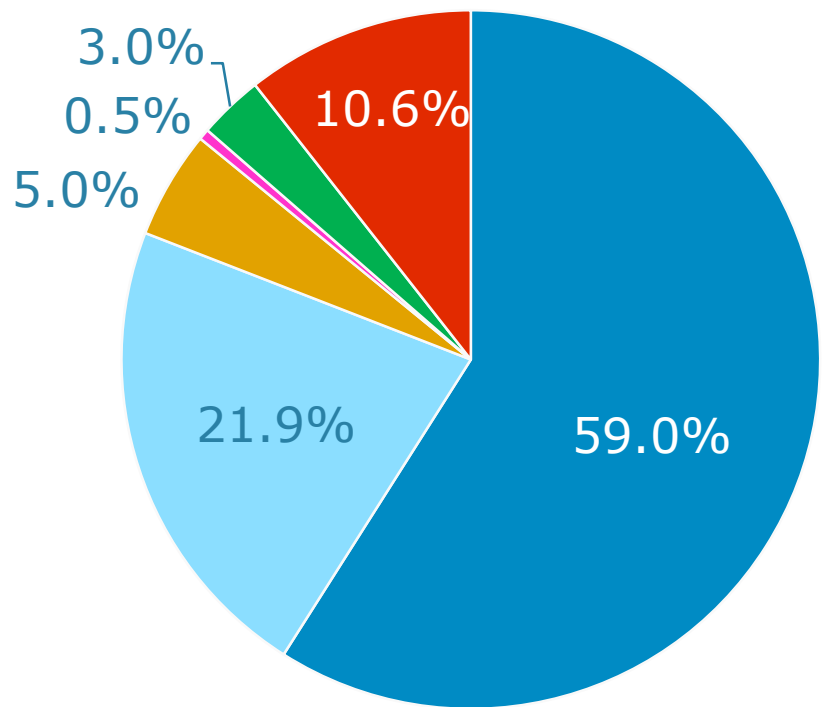
- Project Webpage
- Outreach via flyers, posters (English/Spanish)
- Online Interactive Wikimap (Aug-Oct)
- Online Survey (Aug-Oct)
- Public Meeting #1 (Sep. 30)
- Ad Hoc Committee meetings (3 meetings)



Alexandria Commute Mode

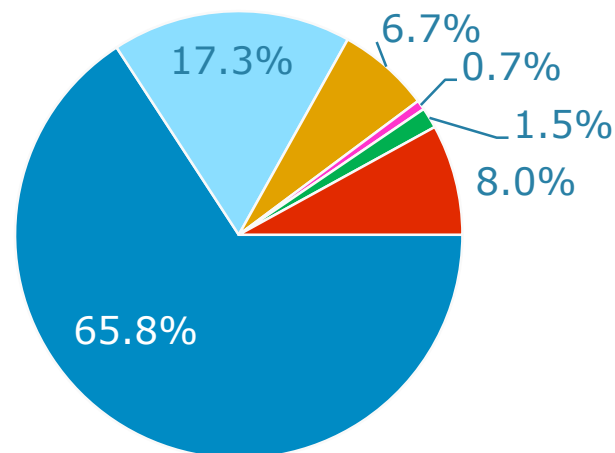


ALEXANDRIA

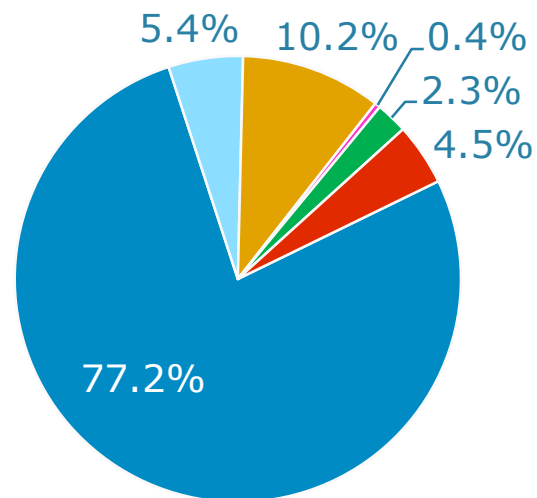


■ Drive Alone
■ Transit
■ Carpool/Vanpool
■ Bike
■ Walk
■ Telework

D.C. REGION



VIRGINIA

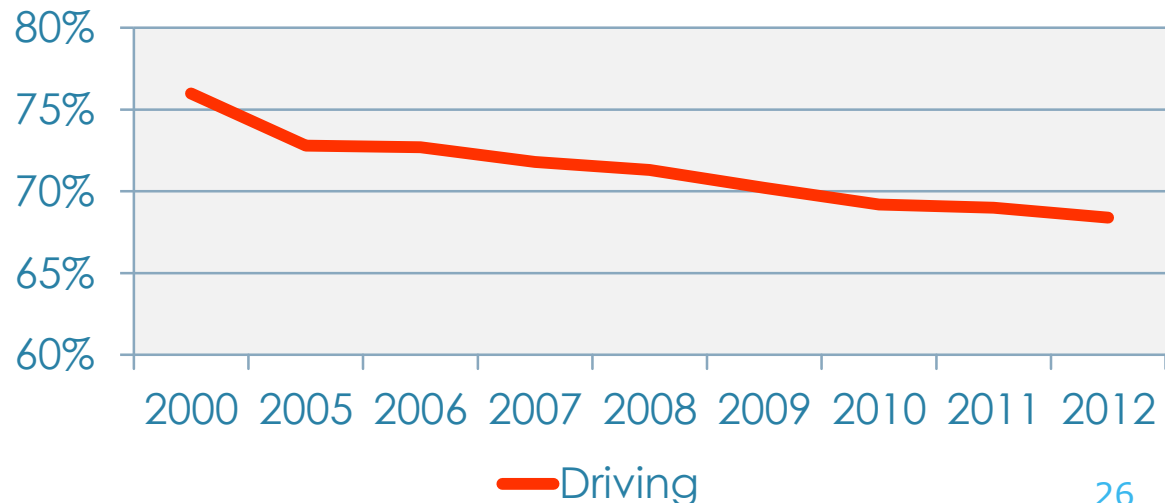
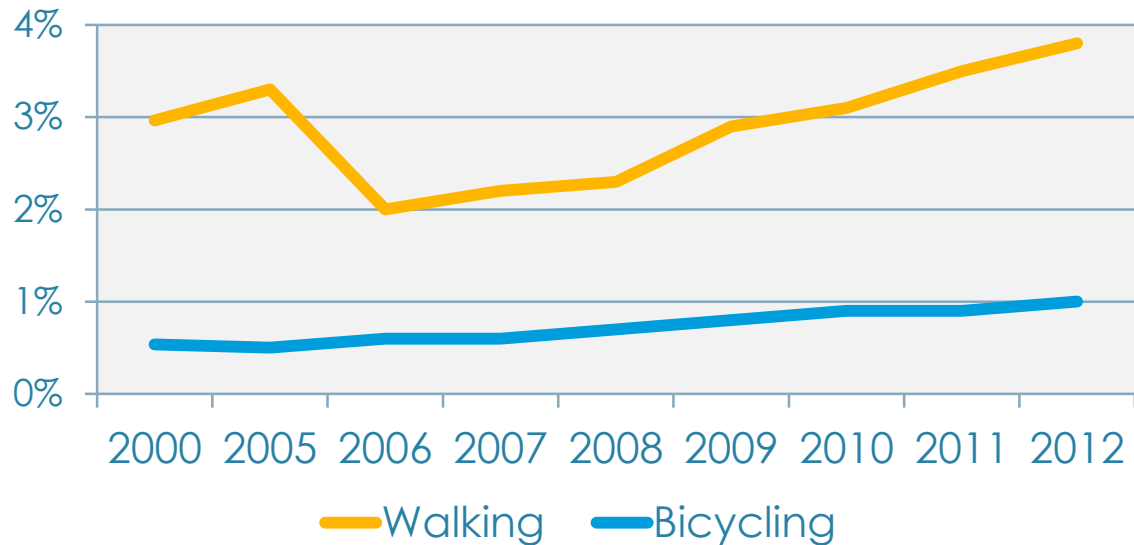


Alexandria Commute Trends



SINCE 2000

- **46%** increase in bicycling
- **22%** increase in walking
- **11%** decrease in drive alone trips



Existing Facilities

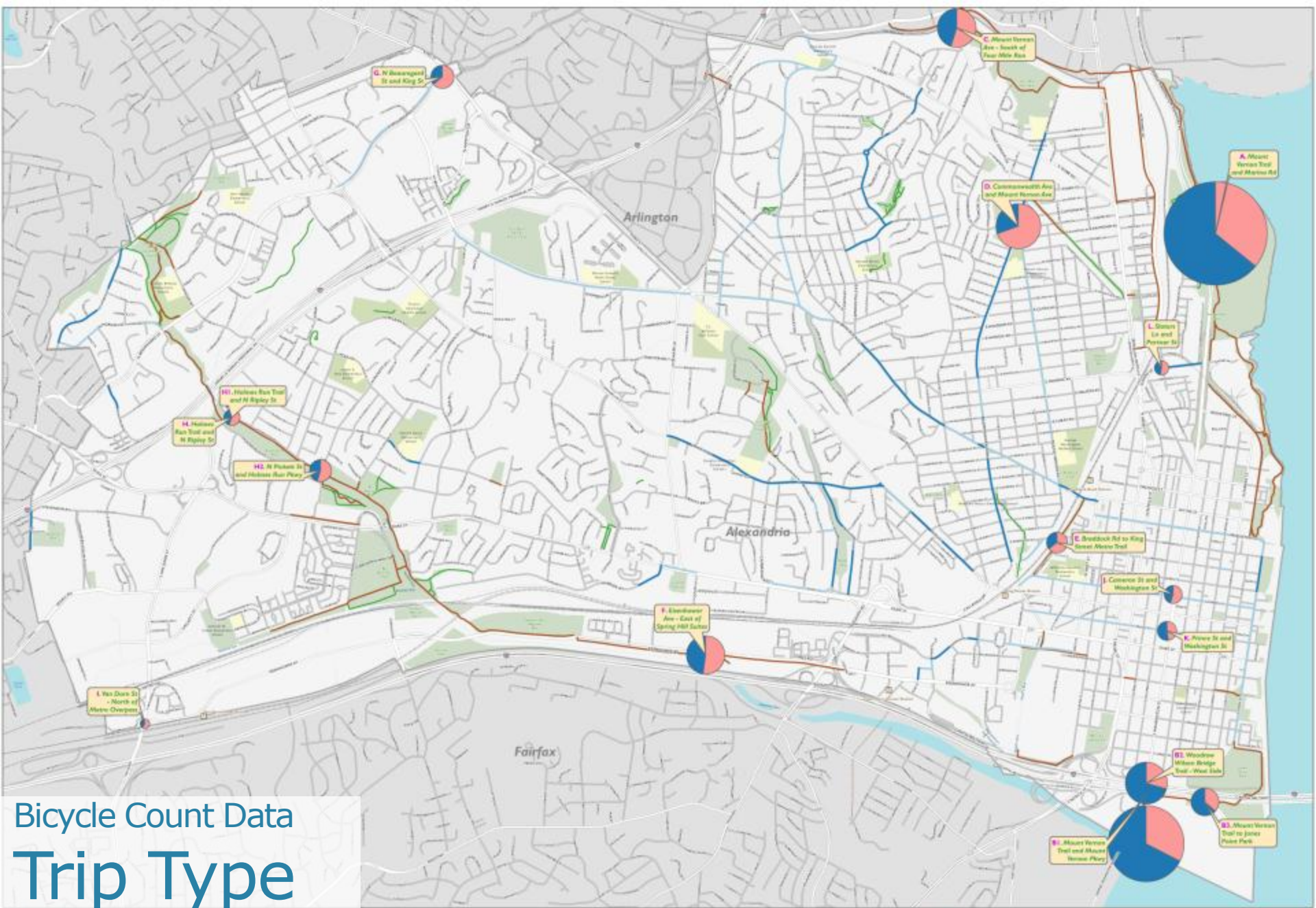
- ~73% of streets have sidewalks
- Over 770 transit stops/stations
- 25.6 miles of trails
- 8.2 miles of bike lanes
- 11.7 miles of "sharrows"
- 16 Capital Bikeshare stations



City of Alexandria, Virginia
Department of Transportation and Environmental Services

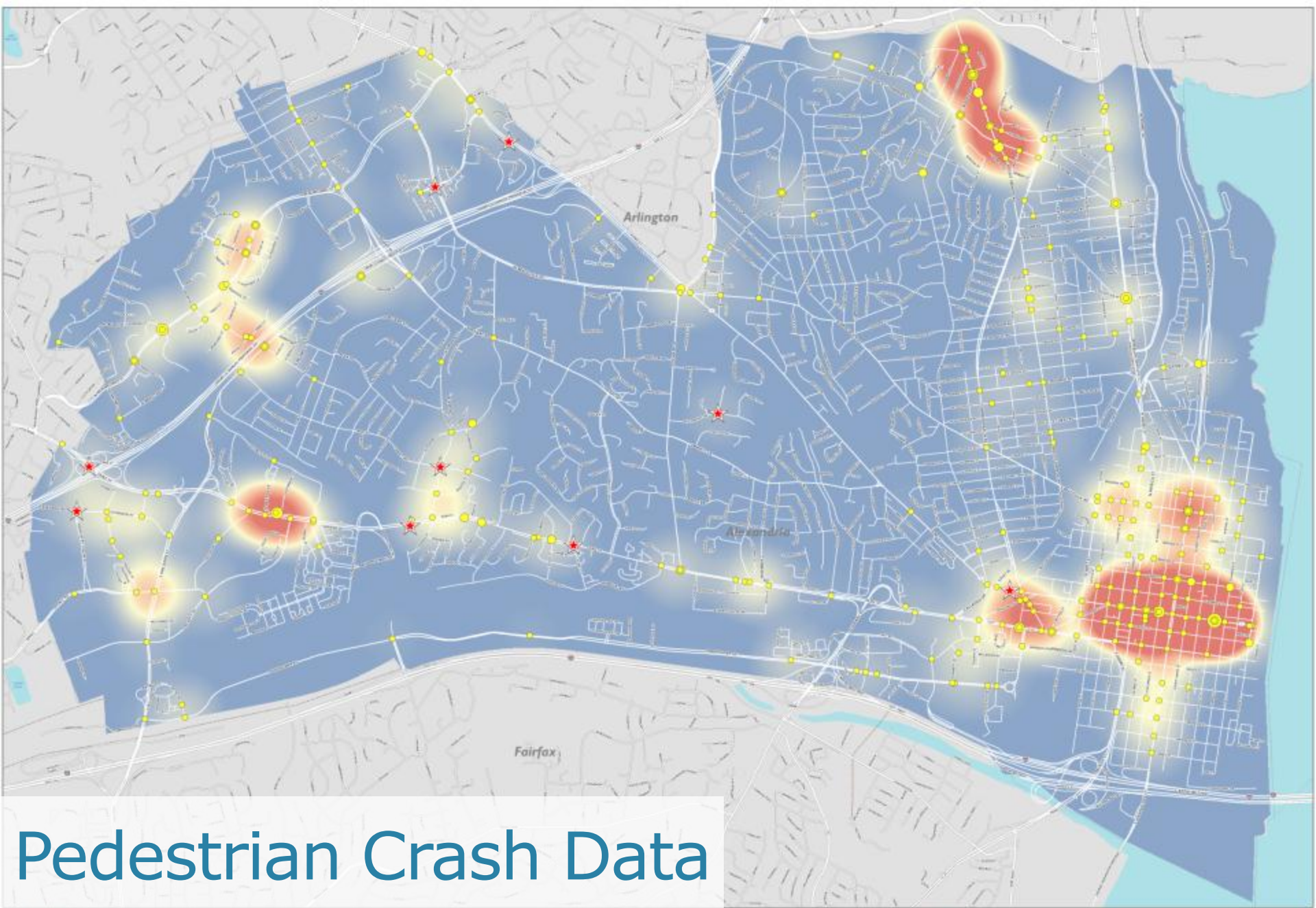
Pedestrian and Bicycle Master Plan Existing Facilities



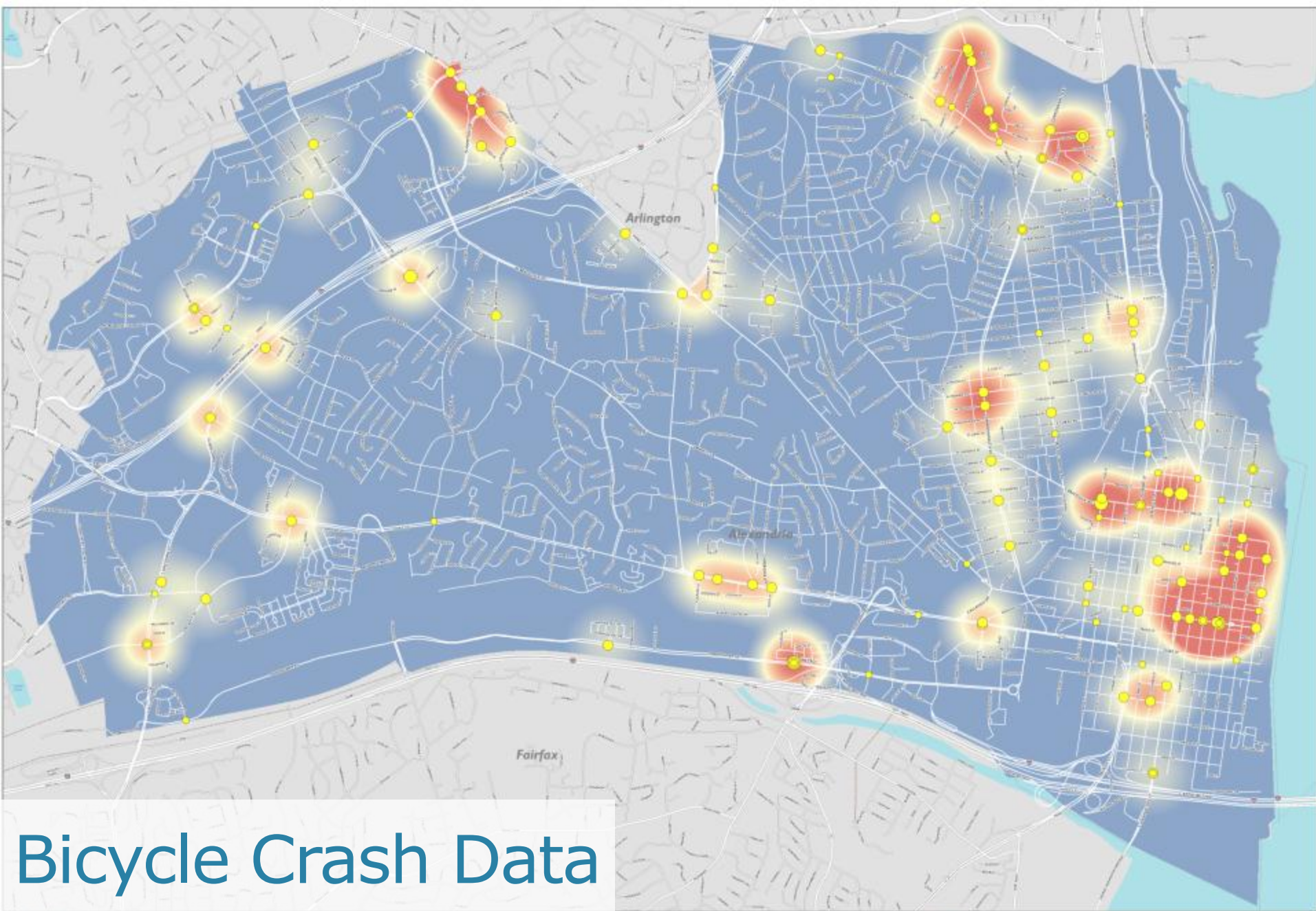


Bicycle Count Data

Trip Type

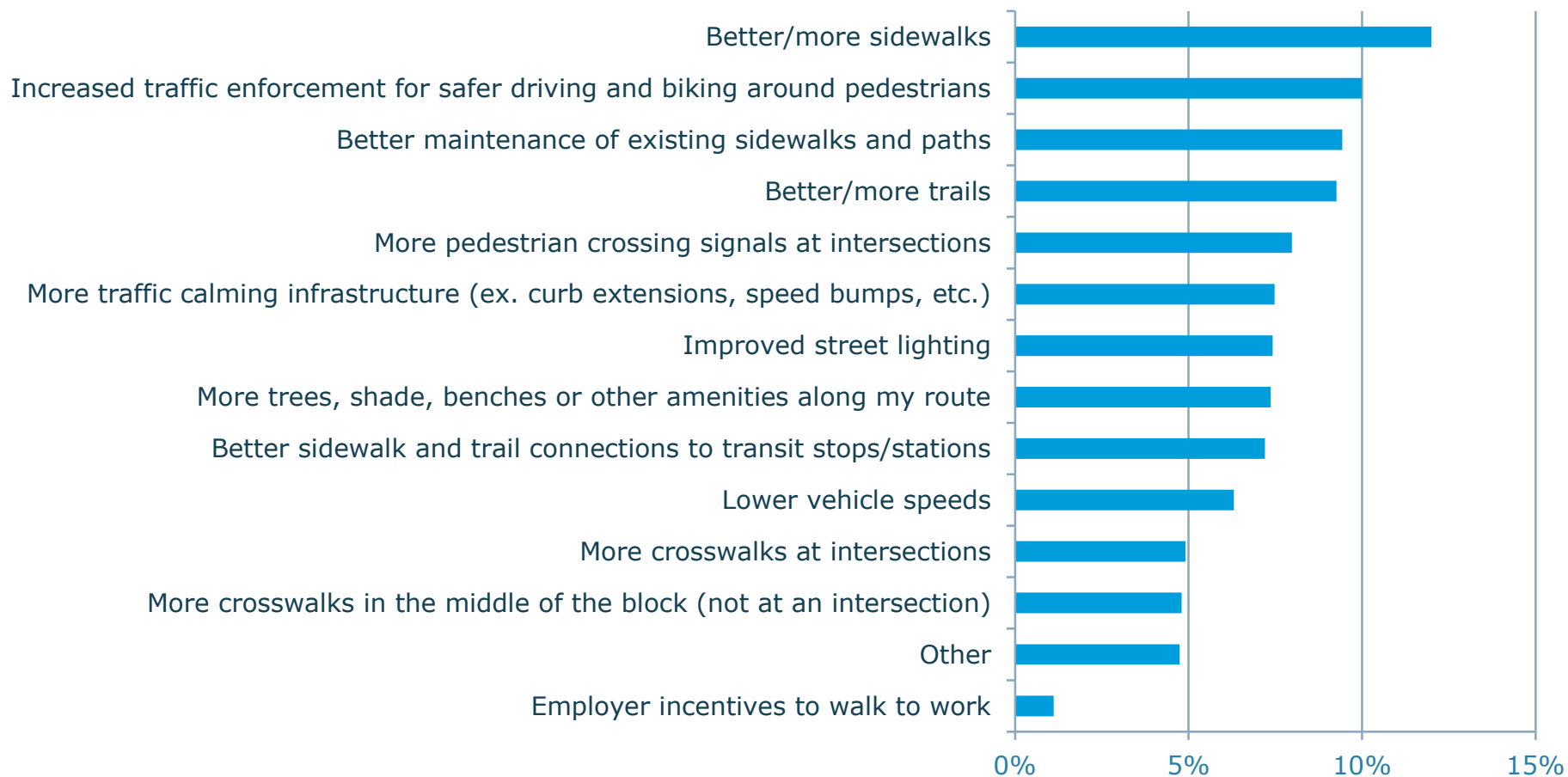


Pedestrian Crash Data



Bicycle Crash Data

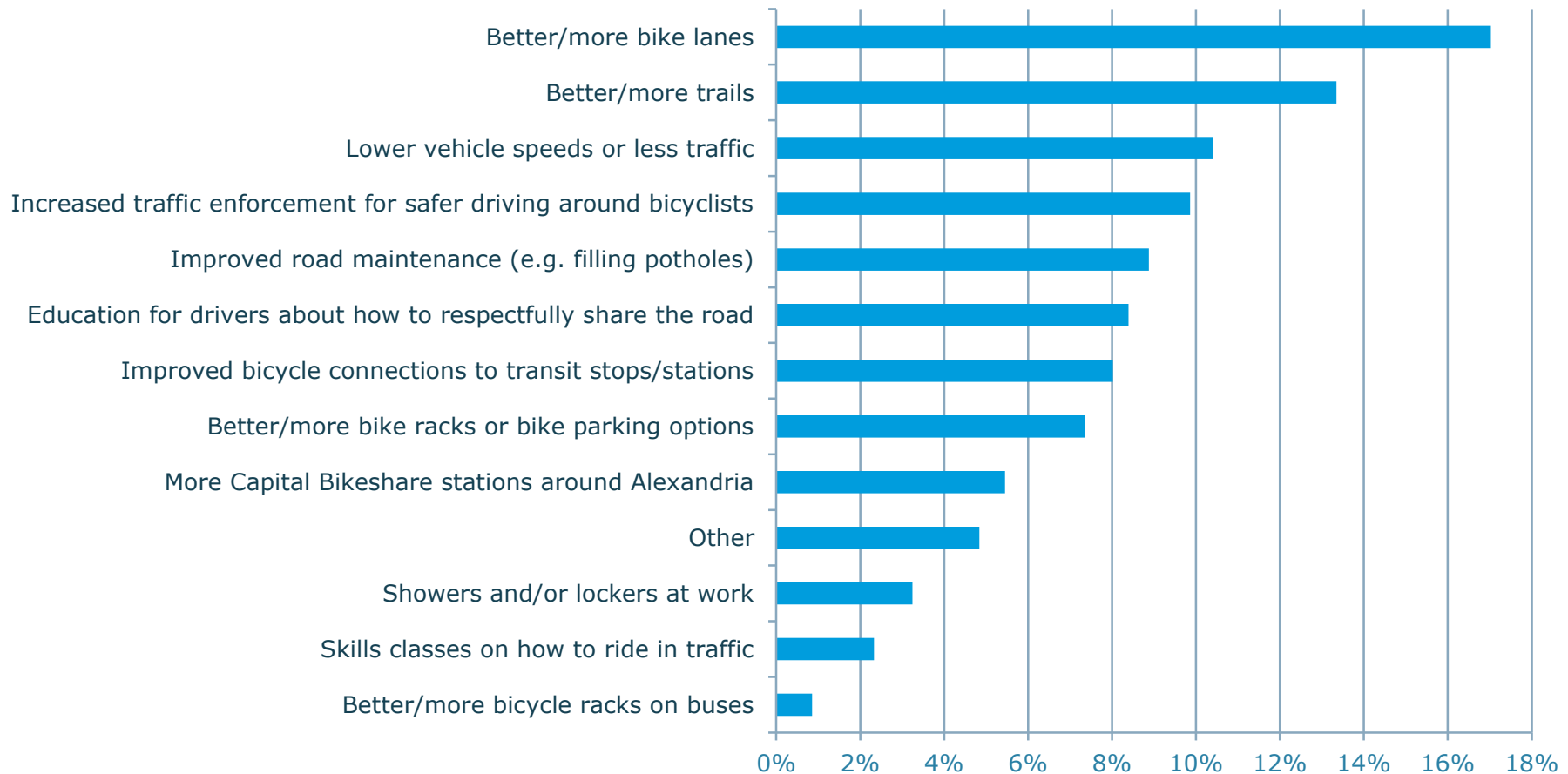
What type of improvements would encourage you to walk more?

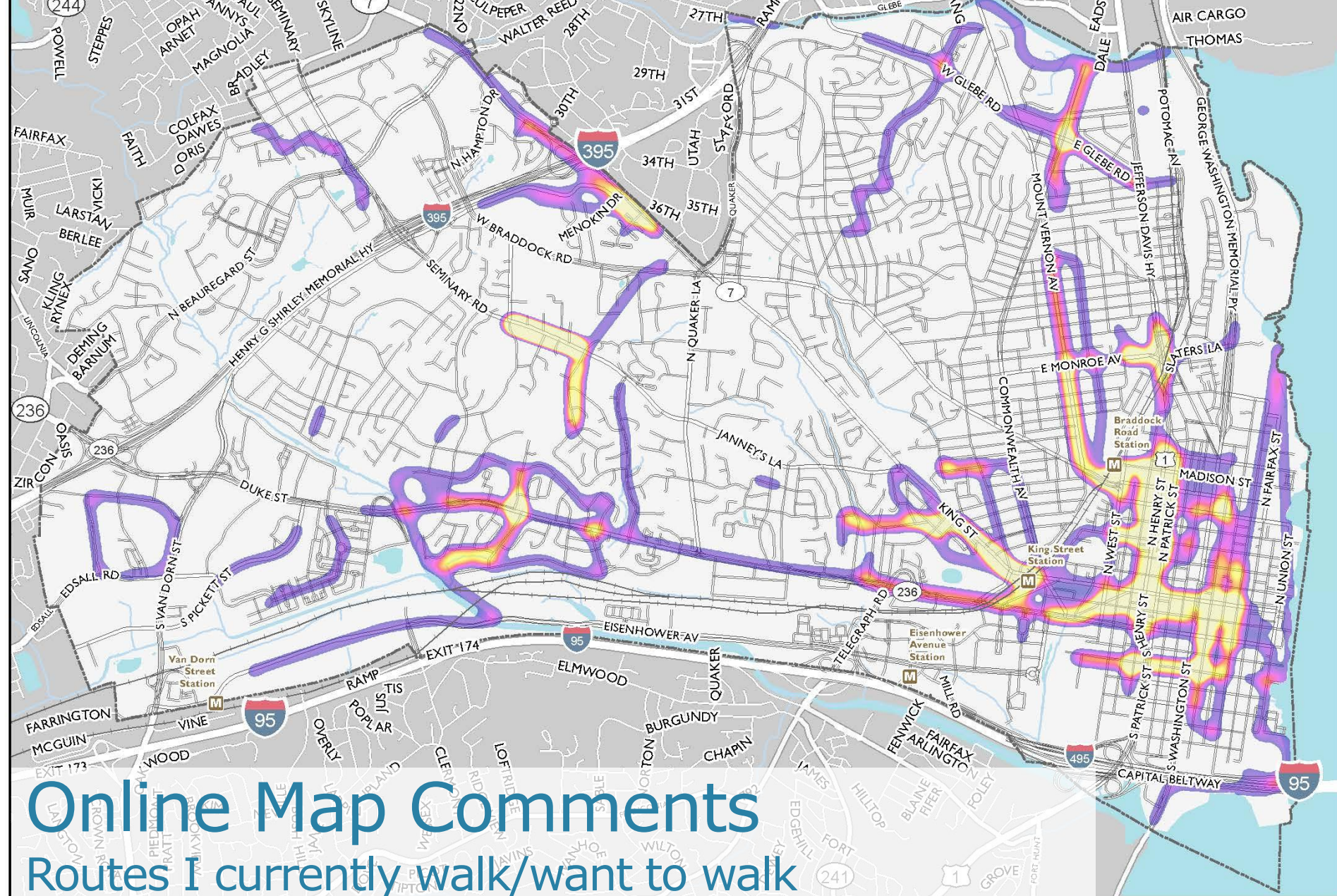


Online Survey



What type of improvements would encourage you to bike more?





City of Alexandria, Virginia
 Department of Transportation and Environmental Services



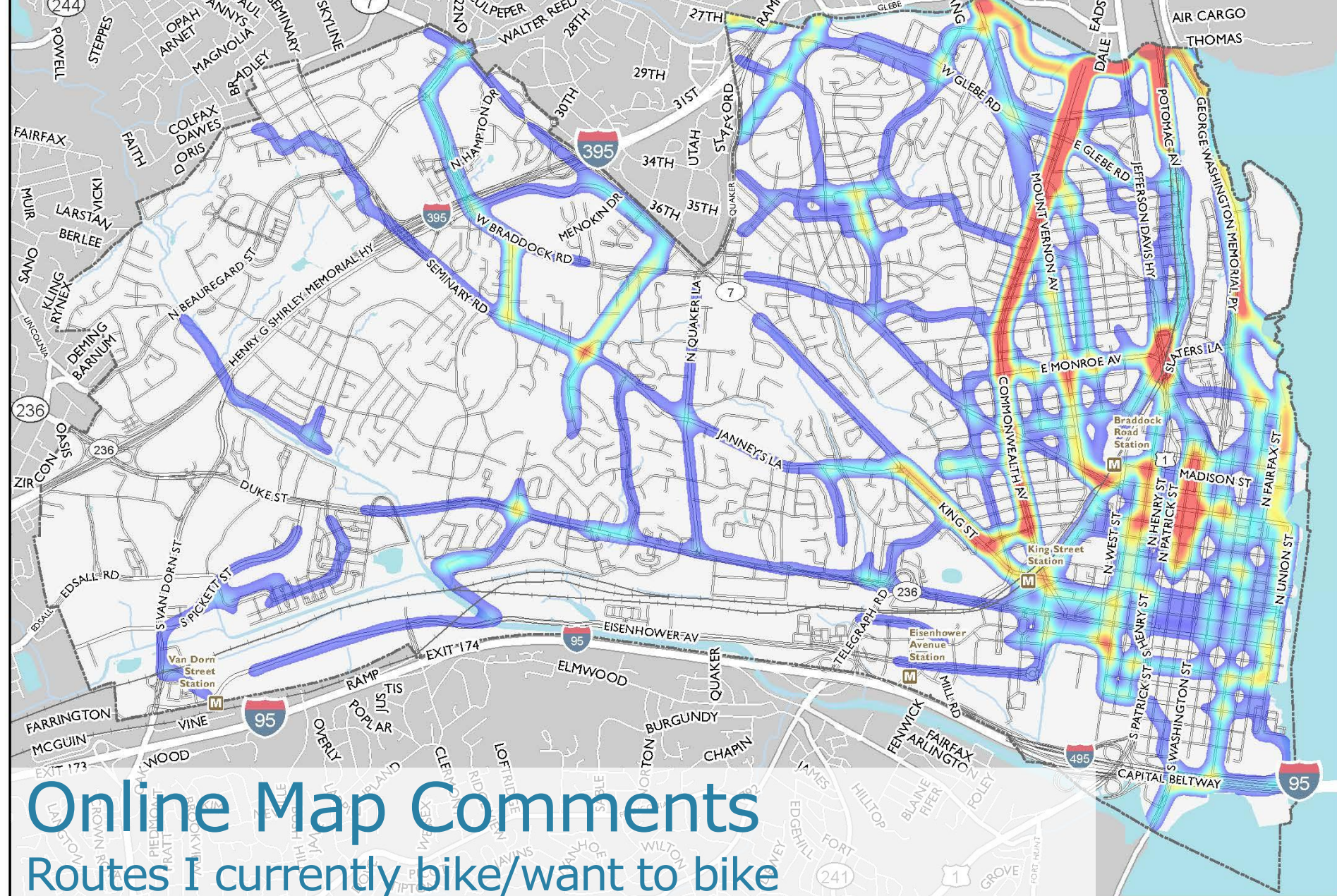
Pedestrian and Bicycle Master Plan
 Online Interactive Map Results - "Routes I Walk/Would Like to Walk"

Comment Density Metro Station City Boundary

High
 Low

Date: 11/24/2014





City of Alexandria, Virginia
 Department of Transportation and Environmental Services



Pedestrian and Bicycle Master Plan
 Online Interactive Map Results - "Routes I Bike/Would Like to Bike"

Date: 11/24/2014



Key issues/opportunities we have heard so far:



- Targeted intersection improvements
- Safe Routes to Schools
- Improved access for people with disabilities
- Connections to key destinations
 - Schools/Parks
 - Transit Stations
 - Neighborhood Retail Centers
 - Trails
- Safety concerns (real and perceived)
- Small neighborhood links / desire lines

Key issues/opportunities we have heard so far:



- East/West connections
- North/South connections
- Transitions at trail start/end points
- Small neighborhood links
- Out-of-city connections
- Improved enforcement of drivers and bicyclists
- Improved education for all
- Increased awareness of rules of the road

Areas where people want improved safety/connectivity:



Areas for Pedestrian Improvements

- Landmark Mall area
- King Street Metro
- Eisenhower Ave Metro
- Arlandria
- Potomac Yard/Jefferson Davis Highway (north of Braddock Rd. metro)
- North Ridge neighborhood
- West End

Areas for Bicycling Improvements

- Duke Street
- Around King Street Metro
- King Street
- Van Dorn Street
- Around Eisenhower Ave Metro
- Holmes Run Trail connections
- Potomac Yard

and many more.....

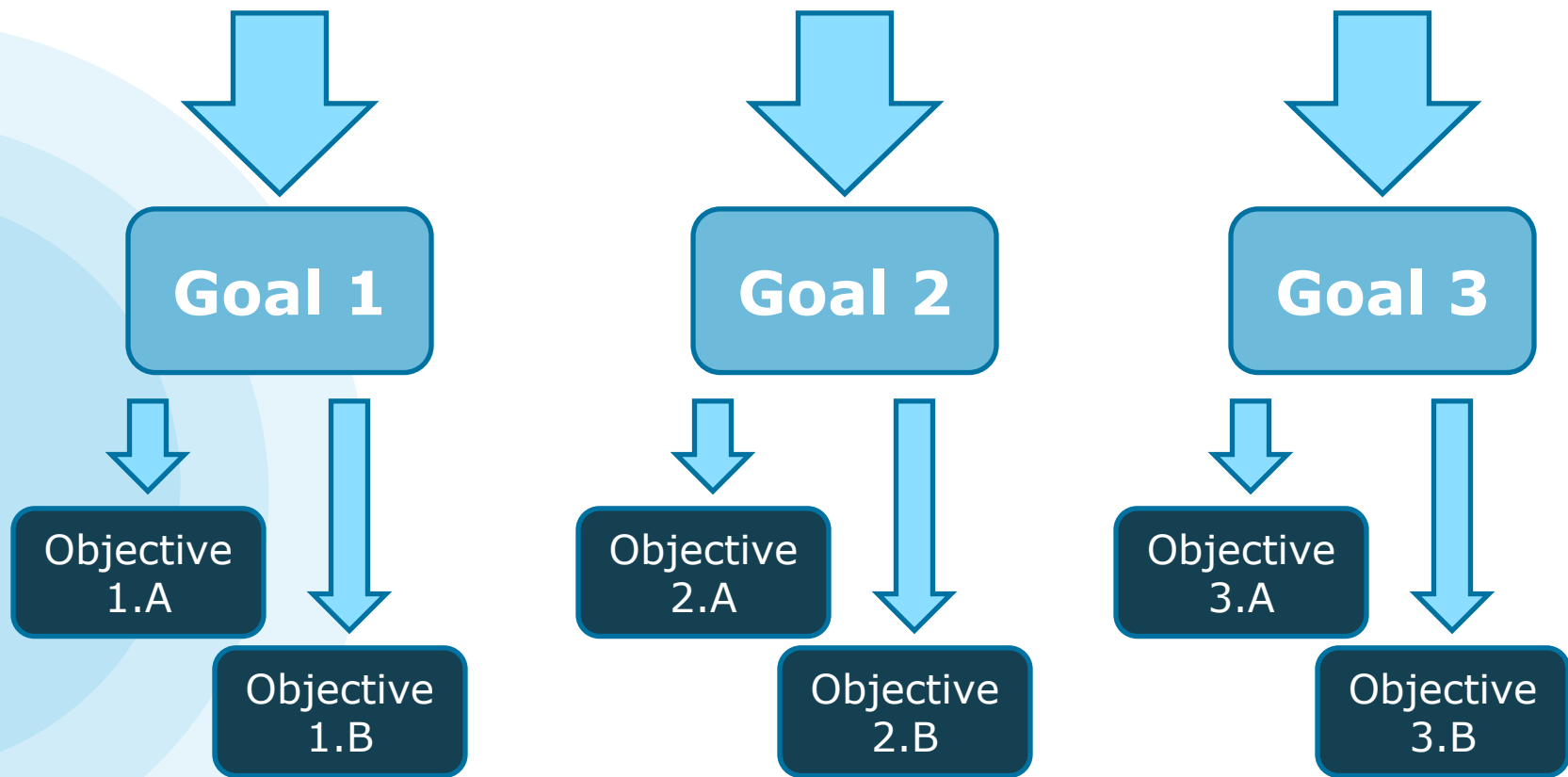


Pedestrian and Bicycle Master Plan Goals and Objectives

Refresher – Vision/Goals/Objectives



Vision



Committee/Stakeholder Feedback on Goals and Objectives



Key themes:

- Add specificity and strengthen language compared with 2008
- Make pedestrian and bicycle goals comparable in terms of emphasis, strength and specificity
- Include quantifiable performance measures
- Emphasize transportation *choice* and recognize that there will still be vehicle travel in the City
- Incorporate focus on walking and bicycling for recreation and fun



Draft **Pedestrian** Performance Measures

Pedestrian Performance Measure	Responsible Department/ Group	Frequency	Related Goal
Percent of people walking to work	T&ES	With Census	Encouragement
Number of pedestrian-motor vehicle crashes, as well as pedestrian injuries and fatalities	APD	Annually	Safety
Linear feet of new or reconstructed sidewalk, citywide	T&ES	Annually	Engineering
Miles of paved off-street trails, citywide	T&ES	Annually	Engineering
Number of intersections that are treated with safety and accessibility improvements	T&ES	Annually	Safety
Number of schools with Safe Routes to School programs and/or offering pedestrian safety education	ACPS	Annually	Education / Safety
Number of people who are reached through the Local Motion program	Communications	Annually	Encouragement
Number of maintenance requests related to a pedestrian issue that are addressed	T&ES	Annually	Engineering / Safety
Percent of signalized intersections with pedestrian countdown signals	T&ES	Annually	Engineering / Safety
Percent of people walking to work at employers participating in Local Motion Transportation Demand Management program	T&ES	Annually	Encouragement
Percent of people walking to transit	DASH/WMATA	As available	Encouragement / Engineering



Draft **Bicycle** Performance Measures

Bicycle Performance Measure	Responsible Department/Group	Frequency	Targeted Goal
Percent of people bicycling to work	T&ES	With Census	Encouragement
Number of bicycle-motor vehicle crashes, as well as bicyclist injuries and fatalities	APD	Annually	Safety
Miles of on-street bicycle facilities citywide	T&ES	Annually	Engineering
Miles of off-street trails citywide	Parks and Recreation	Annually	Engineering
Number of intersections improved with bicycle accommodations (bike boxes, bike signals, bicycle-compatible loop detectors, etc)	T&ES	Annually	Engineering
Number of bike share trips in Alexandria	T&ES	Annually	Encouragement
Number of schools participating in Safe Routes to School programs and/or offering bicycle safety programs	ACPS	Annually	Education / Safety
Number of adult bicycle safety courses offered	Local Motion	Annually	Education
Number of people who are reached through the Local Motion program	Communications	Annually	Encouragement
Number of bike parking spaces installed	T&ES	Annually	Engineering / Encouragement
Number of bicycle facility maintenance requests that are addressed	T&ES	Annually	Engineering / Safety



Pedestrian and Bicycle Master Plan Strategies, Focus Areas and Network Plan

Pedestrian Focus Areas

- A finite number of intersections or short corridors that will be the focus of project field work
- Places with a combination of:
 - High demand
 - High public interest/concern





Bicycle Tier System

Network Function

Tier 1: Primary

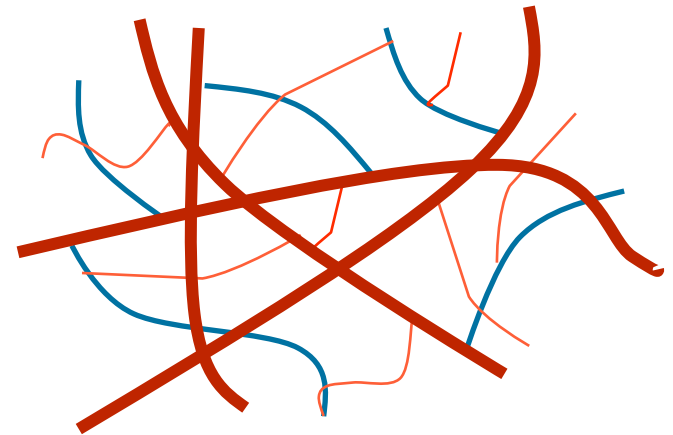
Major cross-city corridors that form the backbone of the network

Tier 2: Secondary

Key feeder links that provide links from neighborhoods or smaller destinations to the backbone system

Tier 3: Tertiary

Shorter improvements that accommodate trips within a particular neighborhood





Next Steps

